-- Write the query to find the most used gaming platform in a tournament held in Poland.

SELECT TOP 1 P.GamePlatform, COUNT(\*) AS Platform\_Count

FROM tblPLATFORM P

JOIN tblGAME\_PLATFORM GP ON P.PlatformID = GP.PlatformID

JOIN tblTOURNAMENT T ON GP.GamePlatformID = T.TournamentID

JOIN tblSTADIUM S ON S.StadiumID = T.StadiumID

WHERE S.StadiumCountry = 'Poland'

GROUP BY GP.PlatformID, P.GamePlatform

ORDER BY Platform\_Count DESC

GO

**-- Write the query to find teams with the most Final Team Gold of each game in every region.**

SELECT T.TeamID, T.TeamName, G.GameID, G.GameName,RG.Region, MAX(S.StatValue) AS StatVal

FROM tblTEAM T

JOIN tblROSTER RT ON T.TeamID = RT.TeamID

JOIN tblROSTER\_ROUND RR ON RT.RosterID = RR.RosterID

JOIN tblROSTER\_ROUNDSTAT RRS ON RR.RosterRoundID = RRS.RosterRoundID

JOIN tblSTATISTIC S ON S.StatID = RRS.StatID

JOIN tblSTATISTIC\_TYPE ST ON ST.StatTypeID = S.StatTypeID

JOIN tblTOURNAMENT TM ON TM.TournamentID = RR.TournamentID

JOIN tblGAME\_PLATFORM GP ON GP.GamePlatformID = TM.GamePlatformID

JOIN tblGAME G ON G.GameID = GP.GameID

JOIN tblPERSON\_ROSTER PR ON RT.RosterID = PR.RosterID

JOIN tblPERSON P ON P.PersonID = PR.PersonID

JOIN tblCOUNTRY C ON C.CountryID = P.CountryID

JOIN tblREGION RG ON RG.RegionID = C.RegionID

WHERE ST.StatisticTypeName = 'Final Team Gold'

GROUP BY T.TeamID, T.TeamName, RG.RegionID, RG.Region, G.GameID, G.GameName

GO

**-- Find regions that have less than 3 persons and at least 1 female person**

SELECT A.RegionID, A.Region, A.totalPerson, B.totalFemale

FROM (SELECT R.RegionID, R.Region, COUNT(P.PersonID) AS totalPerson

FROM tblREGION R

JOIN tblCOUNTRY C ON R.RegionID = C.RegionID

JOIN tblPERSON P ON C.CountryID = P.CountryID

GROUP BY R.RegionID, R.Region

HAVING totalPlayers < 3) A,

(SELECT R.RegionID, R.Region, COUNT(P.PersonID) AS totalFemale

FROM tblREGION R

JOIN tblCOUNTRY C ON R.RegionID = C.RegionID

JOIN tblPERSON P ON C.CountryID = P.CountryID

JOIN tblGENDER G ON P.GenderID = G.GenderID

WHERE G.GenderName = 'F'

GROUP BY R.RegionID, R.Region

HAVING COUNT(P.PersonID) >= 1) B

WHERE A.RegionID = B.RegionID

**-- Find developers that made games which are played in Stadiums in the United States and is available on the PC**

SELECT D.DeveloperID, D.Developer

FROM tblDEVELOPER D

JOIN tblGAME\_DEVELOPER GD ON D.DeveloperID = GD.DeveloperID

JOIN tblGAME\_PLATFORM GP ON GD.GamePlatformID = GP.GamePlatformID

JOIN tblTOURNAMENT T ON GP.GamePlatformID = T.GamePlatformID

JOIN tblSTADIUM S ON T.StadiumID = S.StadiumID

JOIN tblPLATFORM P ON GP.PlatformID = P.PlatformID

WHERE P.GamePlatform = 'PC'

AND S.StadiumCountry = 'United States'

**--Games released on multiple platforms that also have been played in more than one tournament**

SELECT A.GameID, A.GameName, A.NumPlatforms, B.NumTournaments

FROM (SELECT G.GameID, G.GameName, COUNT(P.PlatformID) AS NumPlatforms

FROM tblGAME G

JOIN tblGAME\_PLATFORM GP ON G.GameID = GP.GameID

JOIN tblPLATFORM P ON P.PlatformID = GP.PlatformID

HAVING COUNT(P.PlatformID) > 1

GROUP BY G.GameID) A,

(SELECT G.GameID, G.GameName, COUNT(T.TournamentID) AS NumTournaments

FROM tblGAME

JOIN tblGAME\_PLATFORM GP ON G.GameID = GP.GameID

JOIN tblTOURNAMENT T ON T.GamePlatformID = GP.GamePlatformID

HAVING COUNT(T.TournamentID) > 1

GROUP BY G.GameID) B

WHERE A.GameID = B.GameID

**--Select Rosters that have participated in at least 2 rounds lasting less than 1 hour and have at least 3 people who are older than 20**

SELECT A.RosterID, A.RosterName, A.NumRounds, B.Num20Plus

FROM (SELECT R.RosterID, R.RosterName, COUNT(RR.RosterRoundID) AS NumRounds

FROM tblROSTER R

JOIN tblROSTER\_ROUND RR ON R.RosterID = RR.RosterID

WHERE DATEPART(HOUR, RR.StartTime - RR.EndTime) < 1)

HAVING COUNT(RosterRoundID >= 2)

GROUP BY R.RosterID) A,

(SELECT R.RosterID, R.RosterName, COUNT(P.PersonID) AS Num20Plus

FROM tblROSTER R

JOIN tblPERSON\_ROSTER PR ON PR.RosterID = R.RosterID

JOIN tblPERSON P ON P.PersonID = PR.PersonID

WHERE P.PersonBirth < DATEADD(MONTH, -12 \* 20, GETDATE())

HAVING COUNT(P.PersonID) >= 3

GROUP BY R.RosterID) B

WHERE A.RosterID = B.RosterID

*--Write the query to return the average salary for the teams from the United States*

SELECT T.TeamID, T.TeamName, AVG(RO.Salary) AS SalaryAVG

FROM tblROSTER R

JOIN tblTEAM T ON R.TeamID = T.TeamID

JOIN tblROLE RO ON R.RoleID = RO.RoleID

JOIN tblPERSON\_ROSTER PR ON R.RosterID = PR.RosterID

JOIN tblPERSON P ON PR.PersonID = P.PersonID

JOIN tblCOUNTRY C ON P.CountryID = C.CountryID

WHERE C.CountryName = 'United States'

GROUP BY T.TeamID, T.TeamName, SalaryAVG

GO

– Count the total number of coaches from China

SELECT COUNT(\*) AS totalCoaches

FROM tblROSTER R

JOIN tblTEAM T ON R.TeamID = T.TeamID

JOIN tblROLE RO ON R.RoleID = RO.RoleID

JOIN tblPERSON\_ROSTER PR ON R.RosterID = PR.RosterID

JOIN tblPERSON P ON PR.PersonID = P.PersonID

JOIN tblCOUNTRY C ON P.CountryID = C.CountryID

WHERE C.CountryName = 'China'

AND RO.RoleName = 'Coach'